



Automotive

US EPA RECORDS CENTER REGION 5

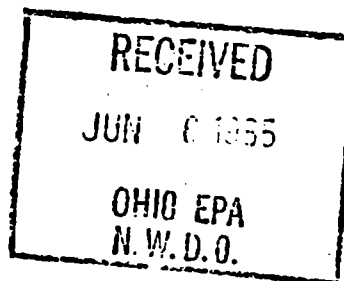


483899

AUTOLITE DIVISION
P.O. BOX 880
FOSTORIA, OH. 44830
(419) 435-6655

June 3, 1985

Mr. Don Waltermeyer
Ohio EPA
Northwest District Office
1035 Devlac Grove Dr.
Bowling Green, OH 43402



Dear Mr. Waltermeyer:

Enclosed you will find a copy of the stack particulate samples test performed on our boiler #3, permit number 0374010117 B003.

From my interpretation of these results, it shows that Autolite is well within compliance on allowable sulfur dioxide emissions, but is slightly above standards on the particulate emissions.

Upon looking at the results, test run #1 indicates the worst condition for particulate emission. Run 2 was much better, and run 3, the best. In my opinion, a reasonable explanation for these increasingly better results as time passed, was the fact that we did not give the boiler long enough time to settle out after we had opened up some valves in the distribution system to increase the boiler load, while at this same time, the instruments were messed up, causing erratic control of the boiler.

Enclosed you will find copies of the boiler charts for the days before and after the test, as well as the test day. As you can see, both the day before and the day after the stability of the boiler was much better and I feel confident these days would have been within the emission limits.

Sincerely,

Steve Robinett
Plant Engineering Dept.

jak

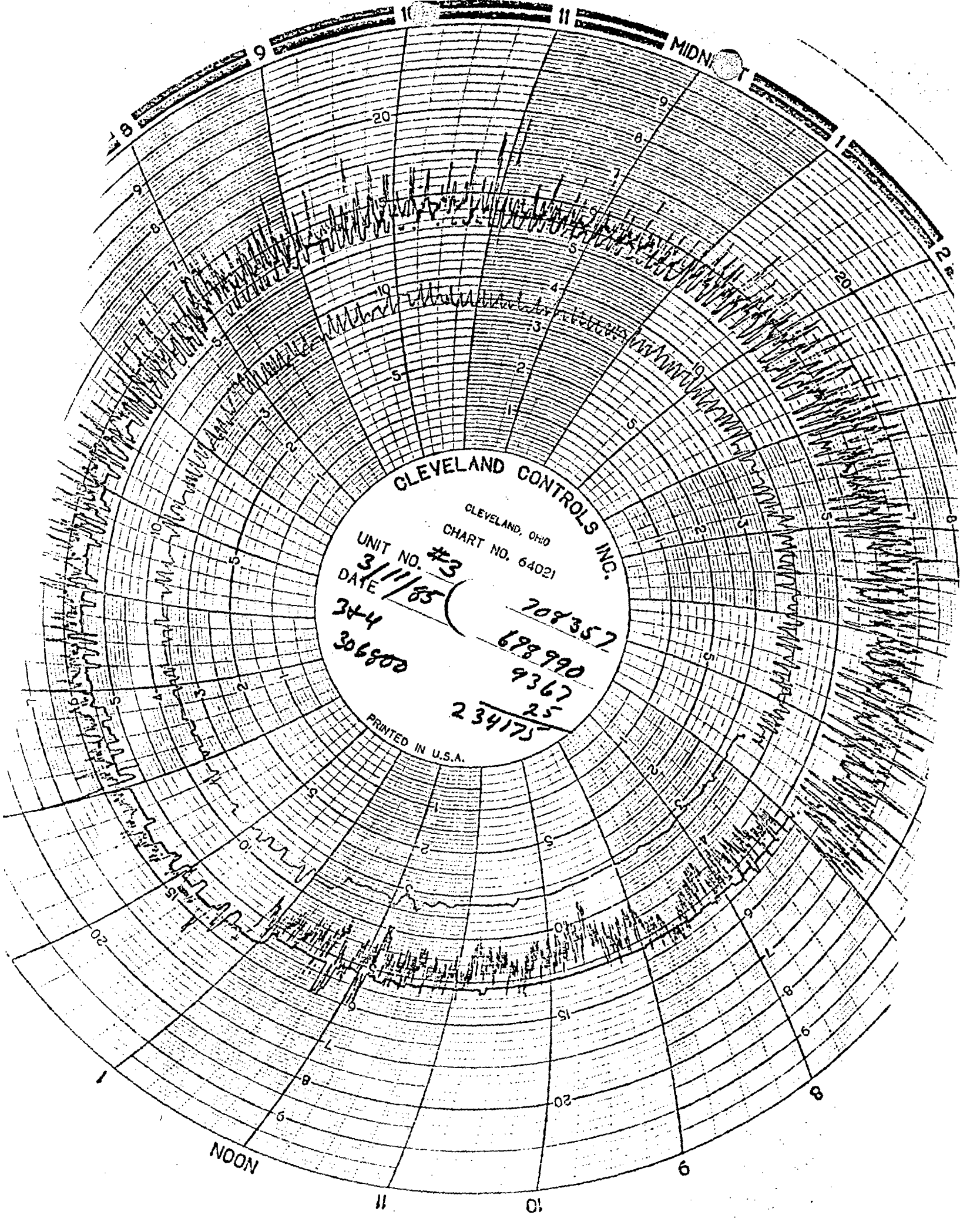
Enclosures

Affiliated Environmental Services, Inc.

TABLE I

SUMMARY OF TEST DATA OBTAINED
AT AUTOLITE (BENDIX)
BOILER #3 EFFLUENT

	Run #1	Run #2	Run #3
Sampling Date	3-12-85	3-12-85	3-12-85
Barometric Pressure	29.62	29.62	29.62
Time	0923-1037	1044-1157	1340-1453
<u>Stack Conditions</u>			
Molecular Weight (Md)			
Orsat Analysis, Dry Basis			
% CO ₂	6.2	6.1	6.0
% O ₂	14.0	13.5	14.1
Moisture Content (%)	4.7	4.9	4.7
Diameter	2'x5'	2'x5'	2'x5'
Area (feet ²)	10.0	10.0	10.0
Temp. Avg. (°F)	443	445	438
Avg. Gas Velocity (f/s)	29.5	29.2	28.6
Flow Rate (SCFH)	5.84x10 ⁵	5.76x10 ⁵	5.71x10 ⁵
Flow Rate (SCFM)	9,740	9,603	9,520
<u>Particulate Sample Data</u>			
Sample Nozzle Dia. (inches)	.375	.376	.375
Sample Vol. (SCF)	52.51	51.60	51.68
Sample Time (min.)	72	72	72
Isokinicity (%)	97.7	96.8	98.4
Collected (mg)	345.0	276.3	246.3
Concentration (gr/1000ft ³)	101	82	73
Emission (lb/hr)	8.47	6.80	6.00
Emission* (lb/10 ⁶ BTU)	0.458	0.368	0.324
*based on BTU's produced from 7373 lbs coal used from 0923-1453			
<u>SO₂</u> lb/hr	26.64	25.12	27.52



CLEVELAND CONTROLS INC.
CLEVELAND, OHIO
CHART NO. 64021

UNIT NO. #3
DATE 3/11/85
344
306800

708357
698990
9367
25
234175

PRINTED IN U.S.A.

MIDNIGHT

NOON

CLEVELAND CONTROLS INC.
CLEVELAND, OHIO

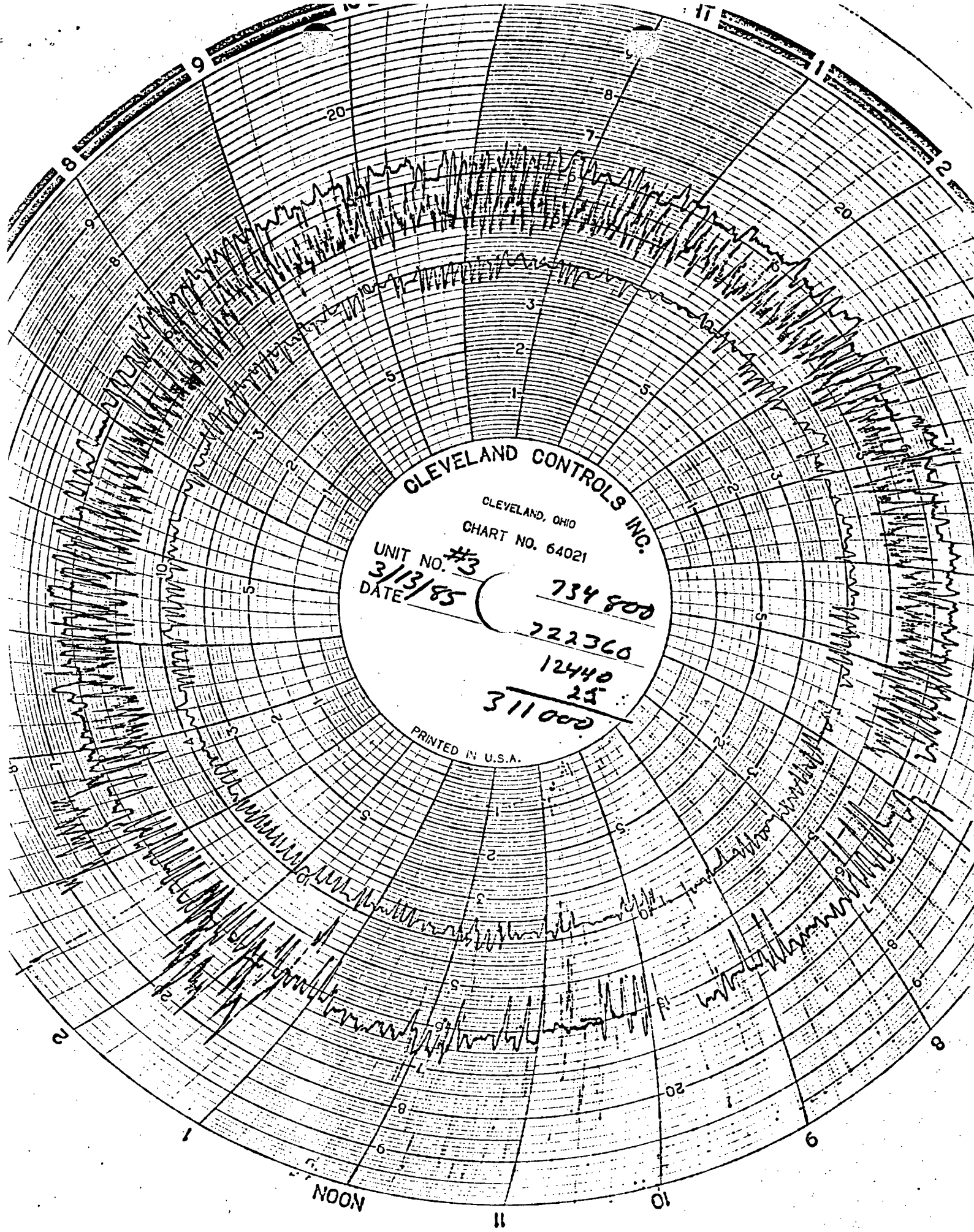
CHART NO. 64021

UNIT NO. #3 722360
DATE 3/12/85 708357
EPA Testing 14003
Under Heavy 25
Load 350075

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EPA Testing

NGON
Noon
Break



CLEVELAND CONTROLS INC.
CLEVELAND, OHIO
CHART NO. 64021

UNIT NO. #3
DATE 3/13/85

734 800
222360
12440
25
311000

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NOON